

ABSTRACT OF THE DISCLOSURE

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An apparatus for determining a bidirectional reflectance distribution function of a subject. The apparatus includes a light source for producing light. The apparatus includes sensing means for sensing the light. The apparatus includes means for focusing the light between the light source and the sensing means and the subject. The apparatus includes a computer connected to the sensing means for measuring the bidirectional reflectance distribution function of the subject from the light sensed by the sensing means. The apparatus can include only one CCD camera for sensing the light. The apparatus can include means for taking sub-measurements of the subject with light from the light source without any physical movement between sub-measurements. A method for determining a bidirectional reflectance distribution function of a subject.